

# Product datasheet for RC206056L4

#### OriGene Technologies, Inc.

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## Neuropeptide Y (NPY) (NM\_000905) Human Tagged Lenti ORF Clone

### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Neuropeptide Y (NPY) (NM\_000905) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: Neuropeptide Y

Synonyms: PYY4

Mammalian Cell Puromycin

Selection:

**Vector:** pLenti-C-mGFP-P2A-Puro (PS100093)

Sgfl-Mlul

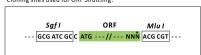
E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC206056).

Sequence:

Restriction Sites: Cloning Scheme:

Cloning sites used for ORF Shuttling:





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_000905

ORF Size: 291 bp





### Neuropeptide Y (NPY) (NM\_000905) Human Tagged Lenti ORF Clone - RC206056L4

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:** 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

**RefSeq:** <u>NM 000905.2</u>

 RefSeq Size:
 576 bp

 RefSeq ORF:
 294 bp

 Locus ID:
 4852

 UniProt ID:
 P01303

**Domains:** hormone3

Cytogenetics:

**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane

**Protein Pathways:** Adipocytokine signaling pathway

7p15.3

**MW:** 10.9 kDa

**Gene Summary:** This gene encodes a neuropeptide that is widely expressed in the central nervous system and

influences many physiological processes, including cortical excitability, stress response, food intake, circadian rhythms, and cardiovascular function. The neuropeptide functions through G protein-coupled receptors to inhibit adenylyl cyclase, activate mitogen-activated protein kinase (MAPK), regulate intracellular calcium levels, and activate potassium channels. A polymorphism in this gene resulting in a change of leucine 7 to proline in the signal peptide is associated with elevated cholesterol levels, higher alcohol consumption, and may be a risk

factor for various metabolic and cardiovascular diseases. The protein also exhibits antimicrobial activity against bacteria and fungi. [provided by RefSeq, Oct 2014]